

ABSTRACT OF THE DISCLOSURE

The present invention provides a two VCSEL array
5 mounted in a single can with a monitoring diode. One
VCSEL is directed toward the can window (for coupling
with an attached fiber optic in a completed subassembly)
and the other is directed toward the monitor diode. The
two VCSELS are electrically coupled in parallel, are
connected to the same pins in the TO can, and are driven
by the same source. Preferably the two VCSELS are
identical or nearly identical. The current of the
monitor diode is proportional to the light emitted by
both VCSELS. Since the monitor diode measures incident
light from the second VCSEL, no angle of reflection is
affected by changes in temperature. Since the two VCSELS
are coupled in parallel, the device has a naturally low
impedance.